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Edmark

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[54]	HAT FOR MAINTAINING A WEARER'S HAIRSTYLE		
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[51]	Int. Cl. ⁶ .	A42C 5/00	
			
		2/181.4; 2/182.2; 2/182.6	
[58]	Field of Search		
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		181.4, 182.1, 182.2, 182.6, 195.1, 195.5,	
		195.6, 209.11, 209.12, 209.13, 909, 918	
[56]		References Cited	

U.S. PATENT DOCUMENTS

D. 352,596	11/1994	Williams, Jr
2,716,753	1/1955	Gordon 2/195
2,803,015	8/1957	Milone 2/177
3,097,363	7/1963	LeBlanc 2/177
3,505,683	4/1970	Wright 2/204
3,737,081	6/1973	James
3,739,401	6/1973	Fekete 2/175
3,852,822	12/1974	Watkins et al
3,869,727	3/1975	Hartman et al
4,443,892	4/1984	Burgin 2/418

4,549,316	10/1985	Johnson 2/195
4,682,373	7/1987	Baran 2/175
4,815,784	3/1989	Zheng
4,999,851	3/1991	Hall 2/180
5,188,097	2/1993	Hansen 128/36
5,247,709	9/1993	Epply 2/175.1
5,287,561	2/1994	Spector
5,365,612	11/1994	Yoshida
5,493,735	2/1996	Rice
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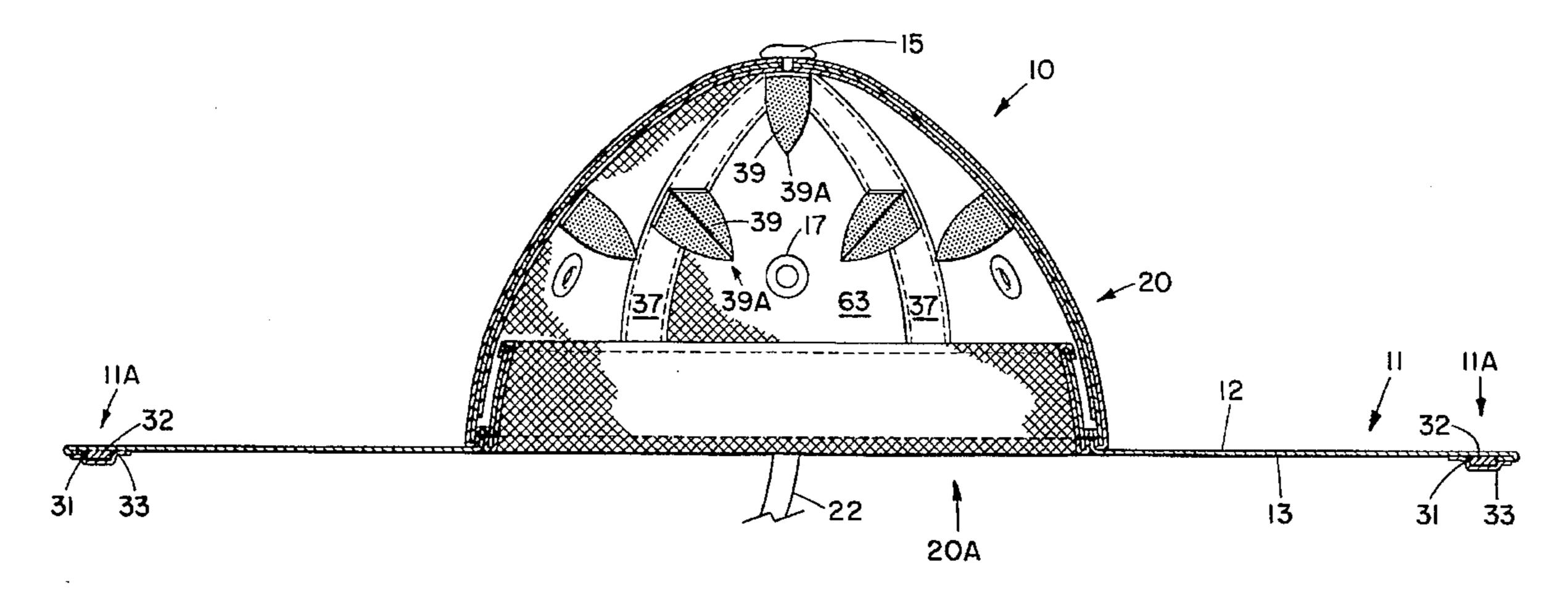
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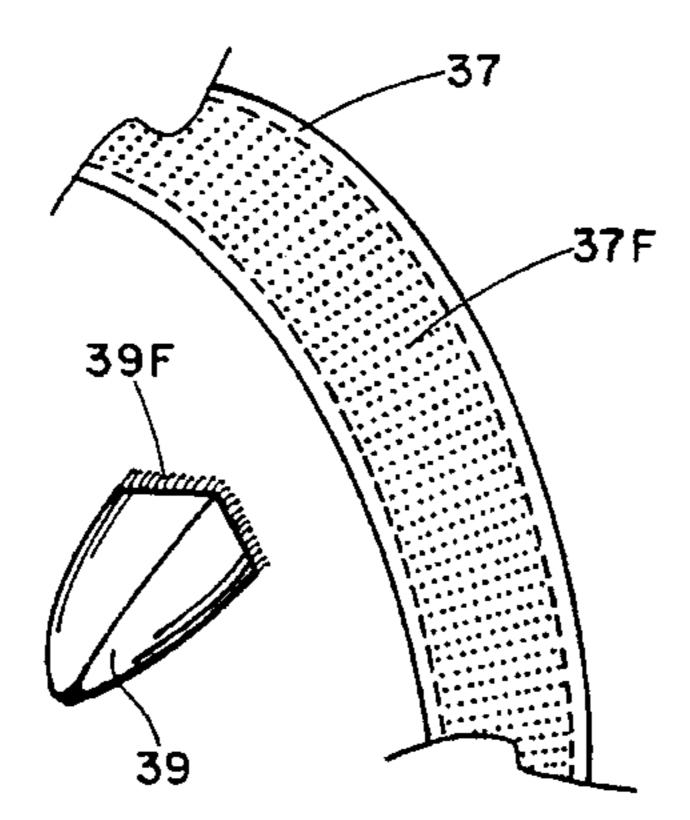
Primary Examiner—Diana Biefeld Attorney, Agent, or Firm—Gilbreth & Strozier, P.C.; J. M. (Mark) Gilbreth; R. W. Strozier

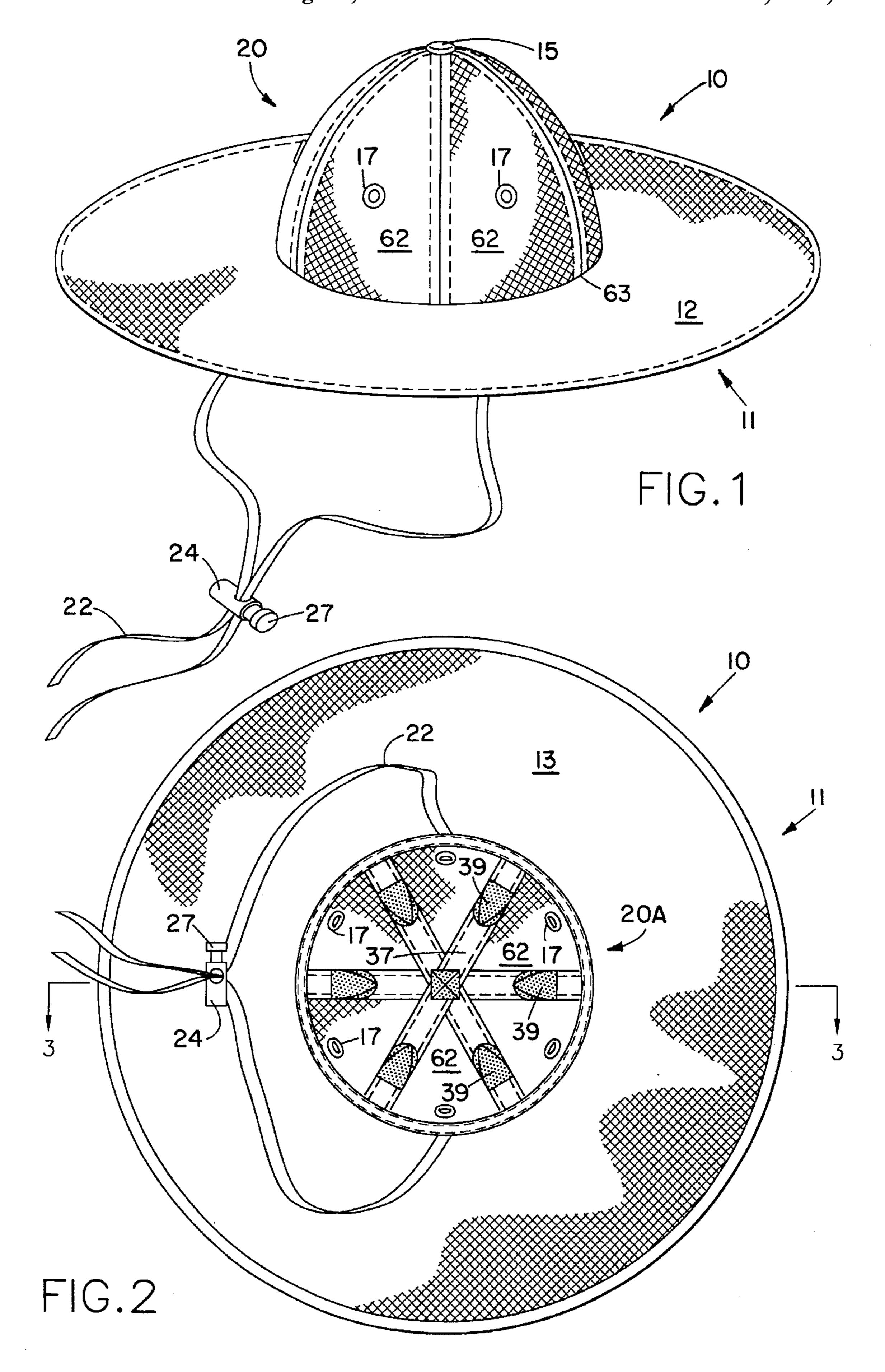
[57] ABSTRACT

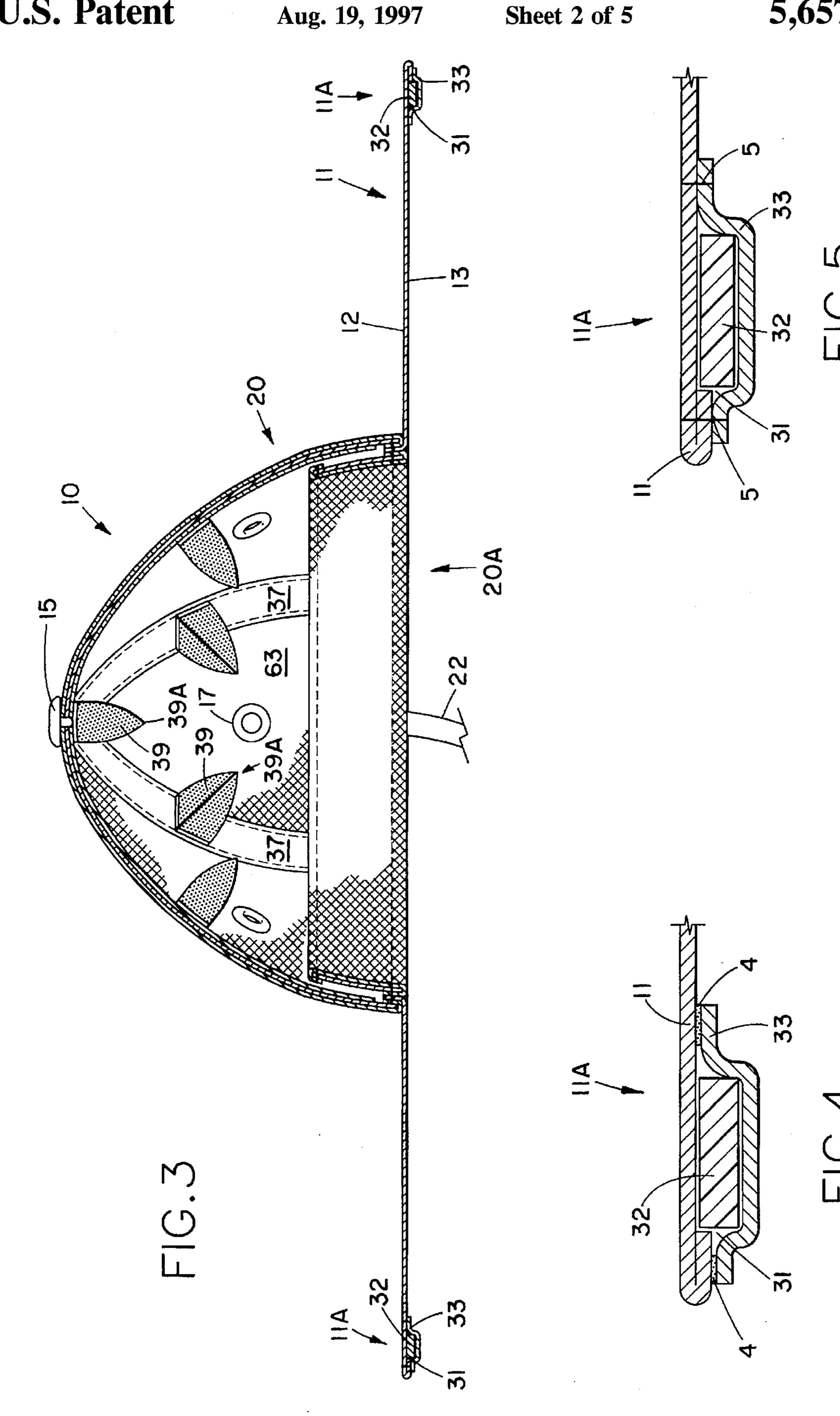
A hat having elongated support members extending from the exterior of the crown of the hat, for supporting the hat upon the head of the wearer, to prevent the hat from causing any undue adverse affect to the wearer's hair style. An alternative embodiment of the hat further includes a casing having a framing that is either attached to the crown or a brim, which framing may be twisted to collapse the hat into a small compact size and shape.

16 Claims, 5 Drawing Sheets









Aug. 19, 1997

FIG.6

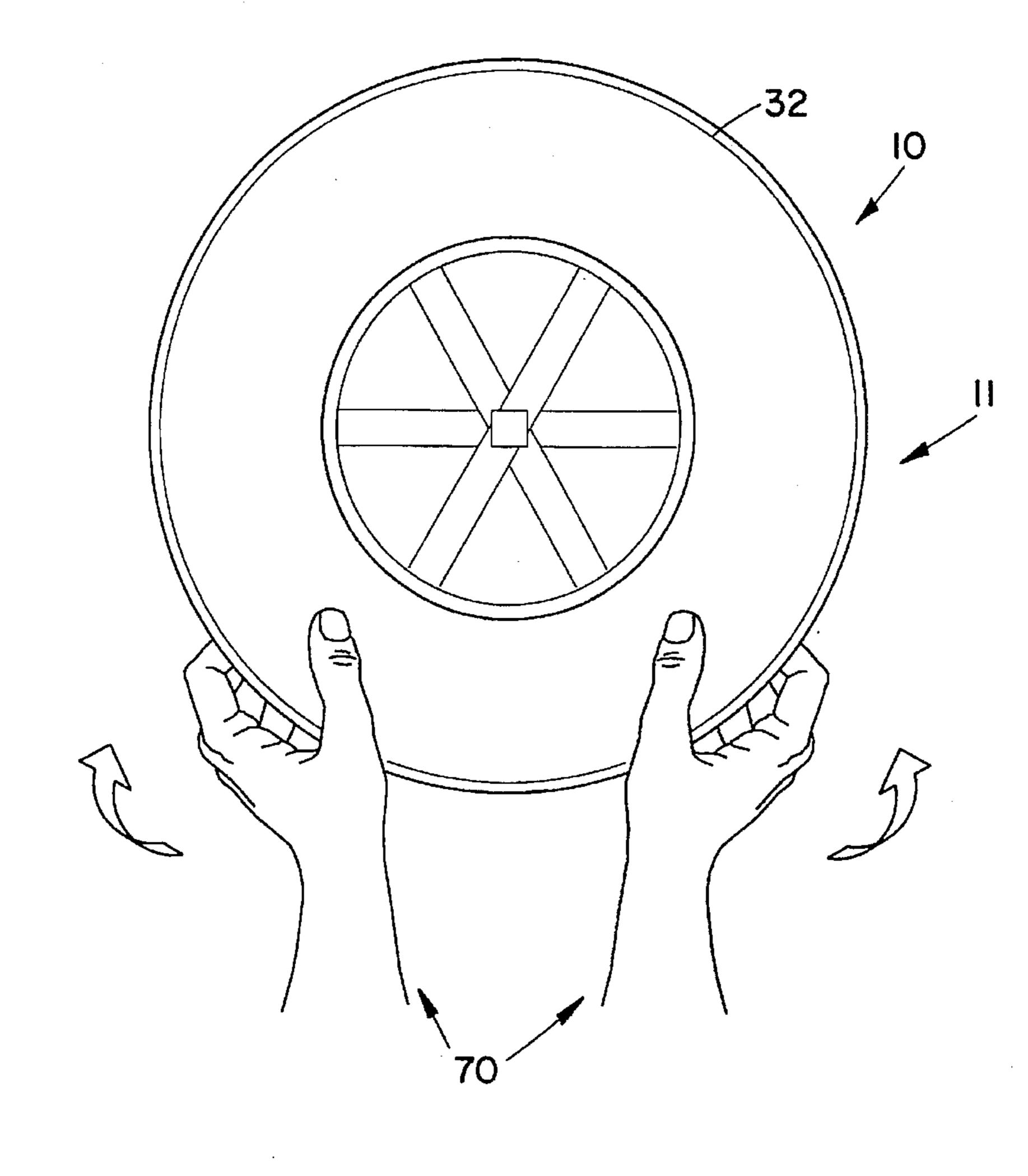
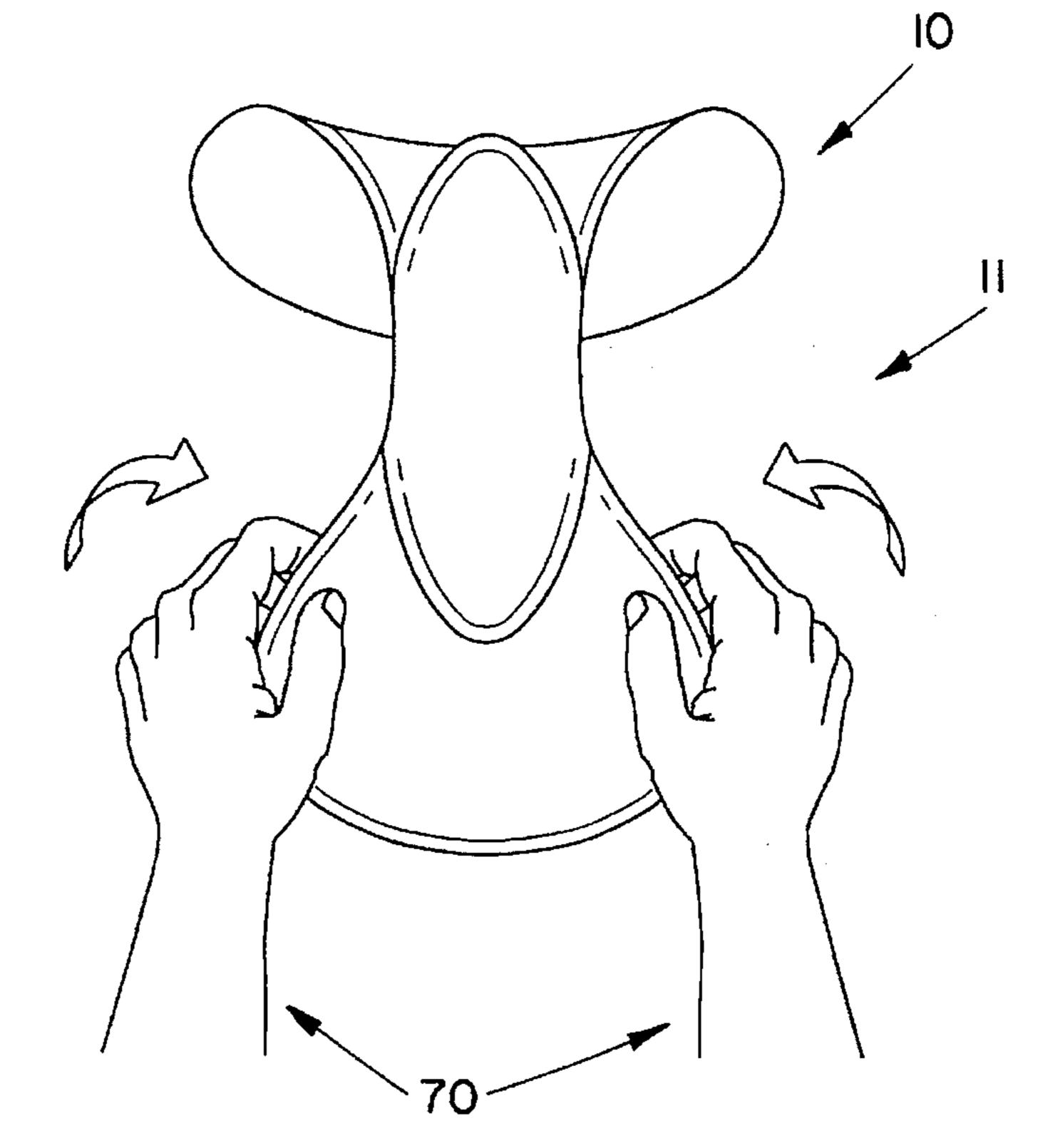
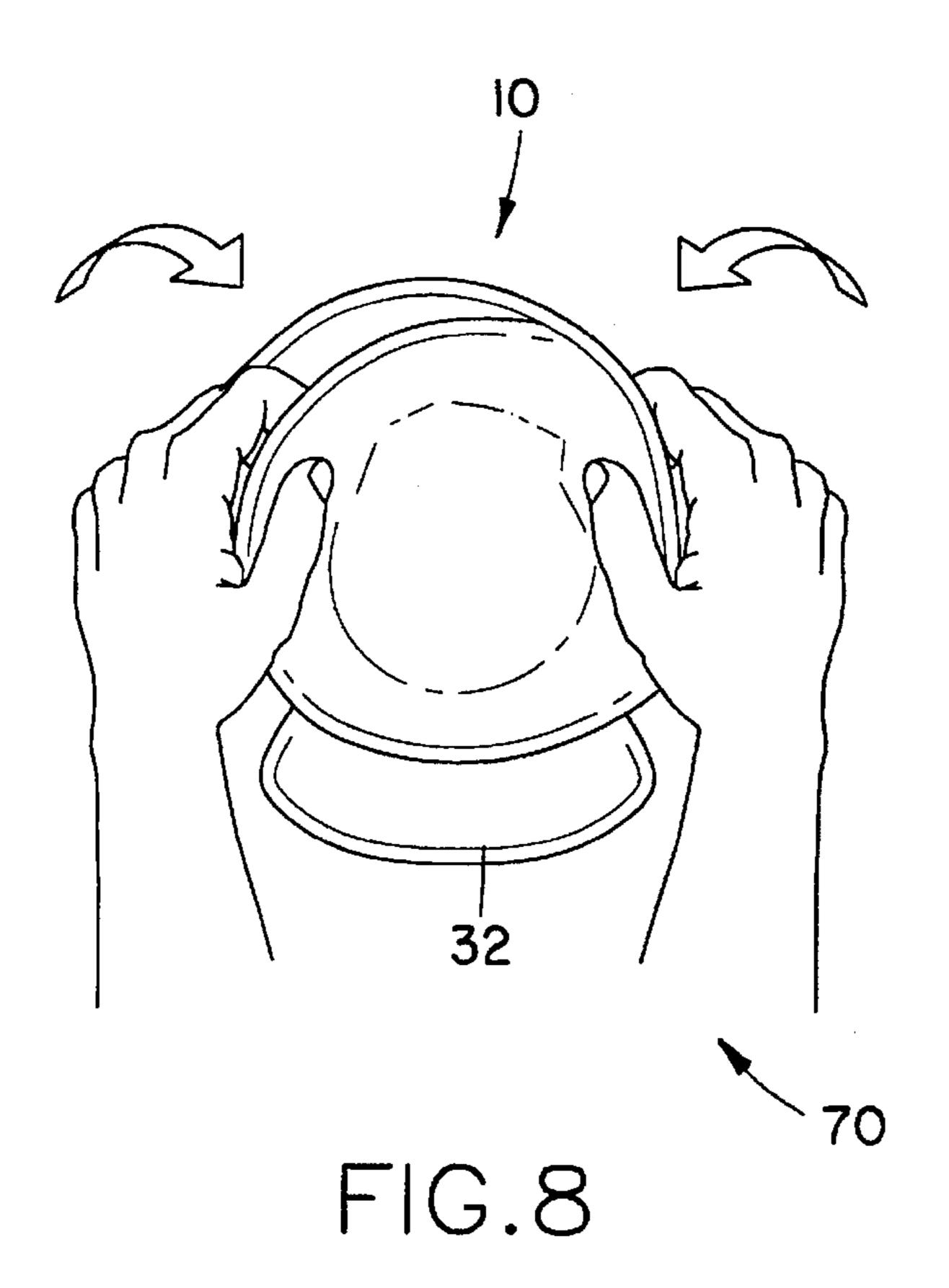


FIG. 7





Aug. 19, 1997

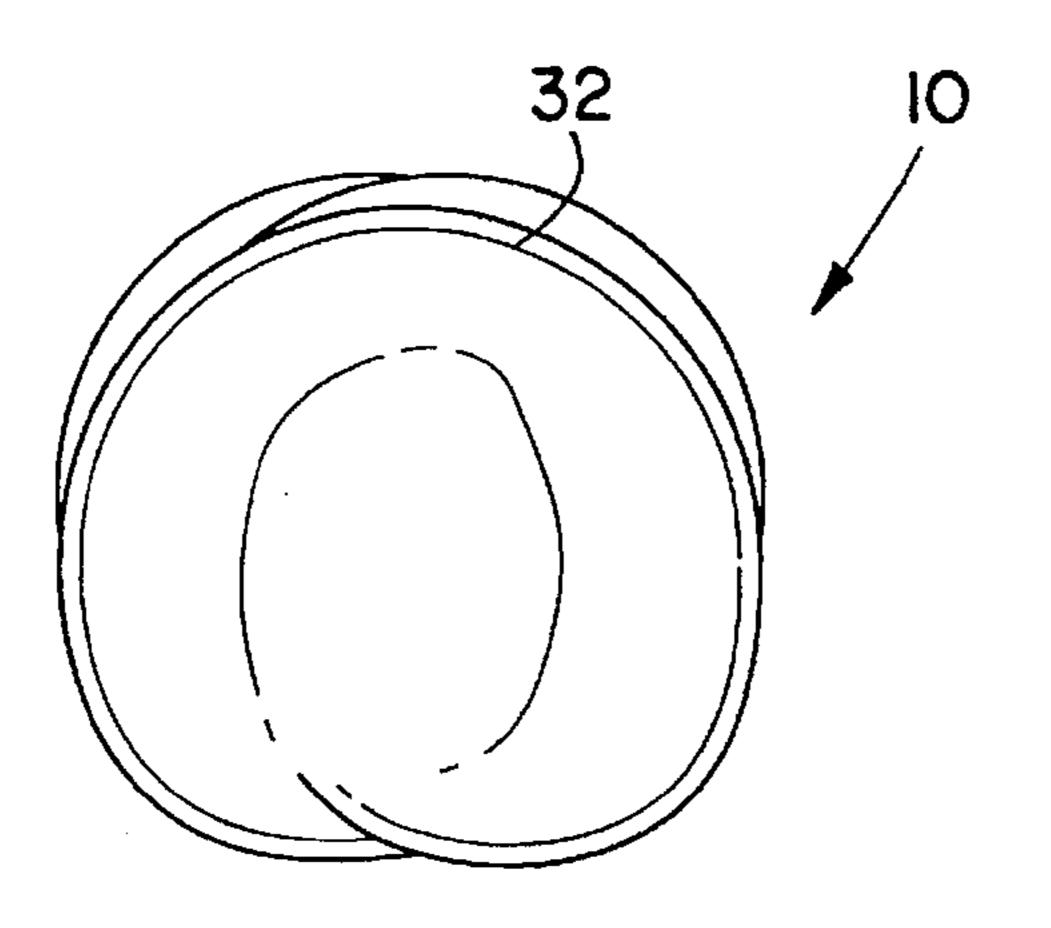


FIG.9

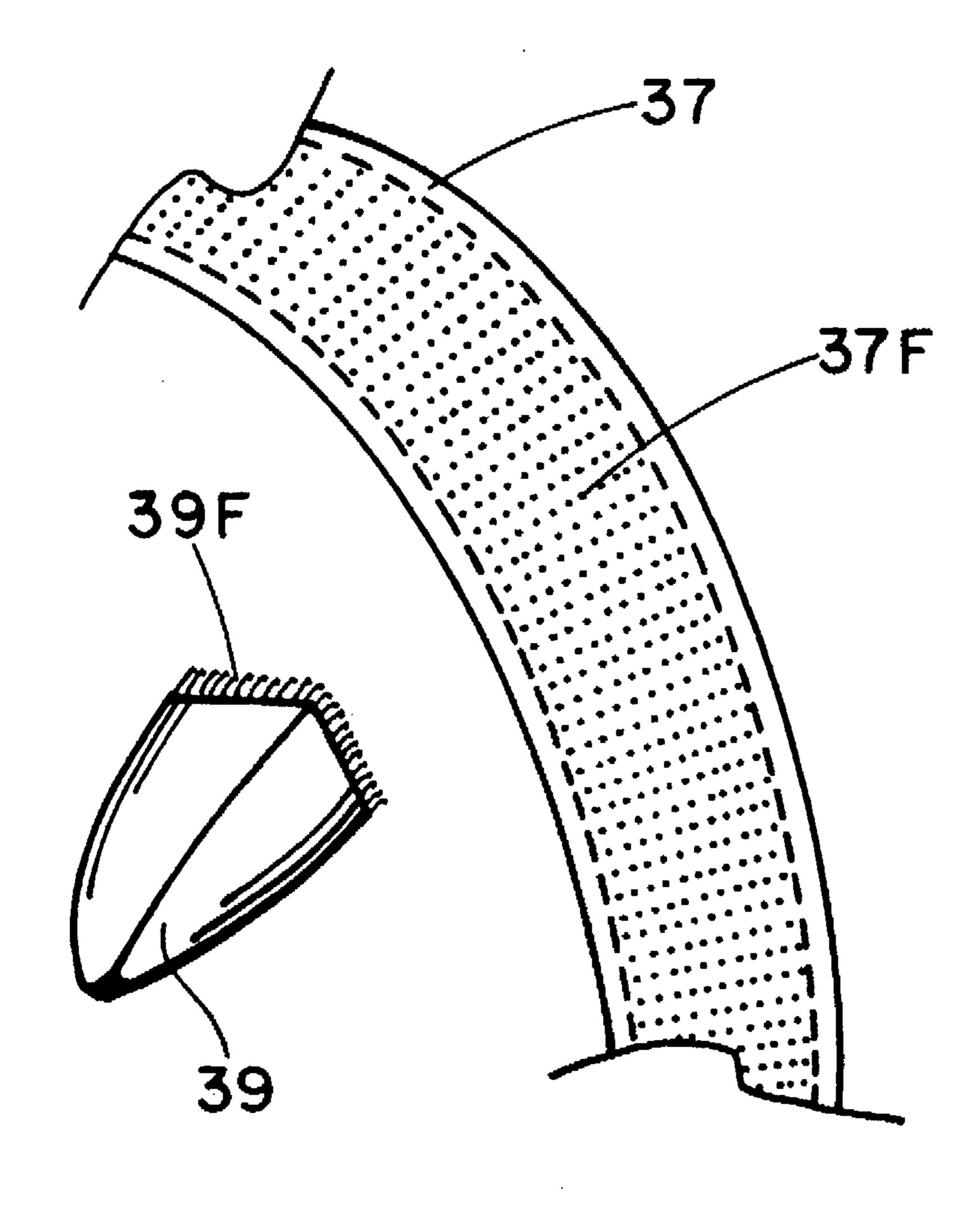


FIG. 10

HAT FOR MAINTAINING A WEARER'S HAIRSTYLE

BACKGROUND OF THE INVENTION

1. Field of the Invention

The present invention relates to hats. In even another aspect, the present invention relates to hats that can be worn without having an undue adverse affect on the wearer's hair style. In still another aspect the present invention relates to collapsible hats. In yet another aspect, the present invention relates to collapsible hats which can be worn without having an undue adverse affect on the wearer's hair style. In even still another aspect, the present invention relates to hats that do not utilize a headband circumferentially contacting the head, but rather which utilize a multiplicity of elongated support members to support the hat on the head, thus minimizing any undue adverse affect on the wearer's hairstyle, and/or allowing air to circulate around the wearer's hair.

2. Description of the Related Art

Hats are many times used to accessorize an outfit. Unfortunately, one of the problems encountered With wearing a hat is that the wearer's hair style will tend to be affected in an undesirable manner by the hat. For example, a head- 25 band indentation may be formed into the wearers's hair, the hair may be "flattened" by the hat, or the hair may be rearranged by the hat.

Additionally, hats that have wide brims suitable for shielding the wearer from the sun or rain will typically be ³⁰ too bulky to easily carry in a pocket, purse or handbag. Folding or rolling such hats will tend to wrinkle or otherwise deform them. Unfortunately, brims that can be easily folded or rolled must be soft and tend not to hold their shape.

There have been many attempts in the prior art to solve ³⁵ some of the above problems.

U.S. Pat. No. 2.716,753, issued Sep. 6, 1955 to Gordon discloses a shape retaining collapsible cap which rolls or folds into a compact assembly, with the cap having a crown portion either reinforced around its perimeter or made of heavy hair cloth. Such a cap will still tend to cause an undue adverse affect on a wearer's hair style.

U.S. Pat. No. 2,803,015, issued Aug. 20, 1957 to Milone discloses an inflatable hat, which has a non-inflatable crown and an inflatable brim. Such a hat still tends to cause an undue adverse affect on a wearer's hair style, and since it requires deflating and inflating, is not readily collapsible to and from its compact form.

U.S. Pat. No. 3,097,363, issued Jul. 16, 1963 to Le Blanc discloses a plastic collapsible sun hat. The hat disclosed in this patent has a flexible frame which is formed of flexible air hoses or tubes which are inflated during use. The hat disclosed tends to cause an undue adverse affect on a wearer's hair style, and since it requires deflating and inflating, is not readily collapsible to and from its compact form.

U.S. Pat. No. 3,737,081, issued Jun. 5, 1973 to James discloses device for holding, storing and shaping western hats. Such patent does not disclose or suggest a hat which is 60 easily collapsible or one that will not cause an undue adverse affect on a wearer's hair style.

U.S. Pat. No. 3,739,401, issued Jun. 19, 1973 to Fekete play discloses a roll up hat which can be stored in a rolled up position. However, such a hat requires a snap fastener to 65 hair. retain it in a rolled up position, and still causes an undue disclarate affect on a wearer's hair style.

2

U.S. Pat. No. 3,852,822, issued Dec. 10, 1974 to Watkins discloses a hard hat having a plurality of webbings about the internal periphery of the hard hat crown in order to form a suspension system operable to maintain the helmet in a spaced relationship from the wearer's head. Such a webbed hard hat is notoriously problematic to a wearer's hair style, resulting in a flattened or otherwise affected hair style. Further, this hard hat is not collapsible.

U.S. Pat. No. 3,869,727, issued Mar. 11, 1975 to Hartman discloses a foldable hat having sections, including a crown wall portion and a brim portion being hingedly connected to one another defining a hat which is to be collapsed into a folded condition in which sections are in a stacked relation. Such patent does not disclose or suggest a hat which will not affect a wearer's hair style.

U.S. Pat. No. 4,443,892, issued Apr. 24, 1984 to Burgin discloses a hat having a hat band and support structure intermediate said hat and hat band. The disclosed hat is not collapsible, and the band will tend to cause an undue adverse affect to the wearer's hair style by causing a ring like indention into hair extending circumferentially around the wearer's head.

U.S. Pat. No. 4,549,316, issued Oct. 19, 1985 to Johnson discloses a foldable hat having at least one preformed fold line along which a visor can be folded into a compact configuration. However, while in a compact configuration, the visor portion will extend from the configuration. Additionally, such a hat will still cause an undue adverse affect on a wearer's hair style.

U.S. Pat. No. 4,682,373, issued Jul. 28, 1987 to Baran discloses a collapsible hat wherein the body and brim of the hat are capable of being folded to generally curved planar condition. However, this hat requires a fastener to retain the hat in a folded condition, and will still cause an undue adverse affect on the wearer's hair style.

U.S. Pat. No. 4,815,784, issued Mar. 28, 1989 to Zheng is directed toward an automobile sunshield, but discloses in the background a cloth hat having a flexible circular member which can fold together to provide for storage. The patent does not disclose or suggest any structure for preventing an undue adverse affect on a wearer's hair.

U.S. Pat. No. 4,999,851, issued Mar. 19, 1991 to Hall discloses a collapsible hat comprising a body and a frame, with the frame including a frame member and a connecting device. The patent does not disclose nor suggest any structure for preventing an undue adverse affect on a wearer's hair.

U.S. Pat. No. 5,188,097, issued Feb. 23, 1993 to Hansen discloses an apparatus for administering capillary massages to enhance the growth of hair. Such an apparatus is not a hat at all, and does not suggest or disclose any structure for preventing a wearer's hair from being "messed up". Further, this apparatus is not collapsible.

U.S. Pat. No. 5,247,709, issued Sep. 28, 1993 to Epply discloses a paper hat formed from kraft paper, having a rectangular top panel forming a crown with four planar side panels connected to the top panel. Such a hat comprises preformed fold lines along which the hat is easily folded for storage. Such a hat rests upon the wearer's head, making contact circumferentially around the wearer's head.

U.S. Pat. No. 5,287,561 issued Feb. 22, 1994 to Spector discloses a fabric hat which is easily convertible into a flying play object. The patent does not suggest or disclose any structure for preventing undue adverse affect to a wearer's hair.

U.S. Pat. No. 5,365,612, issued Nov. 22, 1994 to Yoshida discloses a disposable rain shield consisting of a bag having

a looped shape and a peripheral inflatable bag. The patent does not suggest or disclose any structure for preventing an undue adverse affect to a wearer's hair.

U.S. Pat. No. Design 1352,596, issued Nov. 22, 1994 to Williams discloses an ornamental collapsible hat. The patent does not suggest or disclose any structure for preventing an undue adverse affect to a wearer's hair style.

None of the references above suggest or disclose any hat structure for preventing an undue adverse affect to a wearer's hair. Additionally, none of the above references disclose or suggest an easily collapsible hat having structure for preventing an undue adverse affect to a wearer's hair.

Thus, there is a need in the art for a hat having structure for preventing an undue adverse affect to a wearer's hair.

There is another need in the art for an easily collapsible hat having structure for preventing an undue adverse affect to a wearer's hair.

There is even another need in the art for a hat having structure for shielding the wearer from the sun, rain and/or 20 other elements, and also having structure for preventing an undue adverse affect to the wearer's hair.

There is still another need in the art for a hat that is easily collapsible into a compact nonbulky shape, and having structure for preventing an undue adverse affect to the ²⁵ wearer's hair.

There is yet another need in the art for a hat that is easily collapsible into a compact nonbulky shape, having structure for shielding the wearer from the sun, rain and/or other elements, and also having structure for preventing an undue adverse affect to the wearer's hair.

There is even still another need in the art for a hat that will allow air to circulate around the wearer's head to keep the head cool and yet protected from the elements.

These and other needs in the art will become apparent to those of skill in the art upon review of this specification, including its drawings and claims.

SUMMARY OF THE INVENTION

It is one object of the present invention to provide for a hat having structure for preventing an undue adverse affect on a wearer's hair.

It is another object of the present invention to provide for an easily collapsible hat having structure for preventing an ⁴⁵ undue adverse affect on a wearer's hair.

It is even another object of the present invention to provide for a hat having structure for shielding the wearer from the sun, rain and/or other elements, and also having structure for preventing an undue adverse affect on a wearer's hair.

It is still another object of the present invention to provide for a hat that is easily collapsible into a compact nonbulky shape, and having structure for preventing a wearer's hair from being "messed up".

It is yet another object of the present invention to provide for a hat that is easily collapsible into a compact nonbulky shape, having structure for shielding the wearer from the sun, rain and/or other elements, and also having structure for preventing a wearer's hair from being "messed up".

These and other objects of the present invention will become apparent to those of skill in the art upon review of this specification, including its drawings and claims.

According to one embodiment of the present invention 65 there is provided a hat which will not cause an undesired affect on a wearers hairstyle. The hat generally includes a

4

multiplicity of elongated support members for supporting the hat on a wearer's head.

According to another embodiment of the present invention there is provided a hat which will not cause an undesired affect on a wearer's hairstyle. The hat generally includes a brim and a multiplicity of elongated support members for supporting the hat on a wearer's head.

According to even another embodiment of the present invention there is provided a hat which will not cause an undesired affect on a wearer's hairstyle. The hat generally includes framing built into the crown of the hat, a brim and a multiplicity of elongated support members for supporting the hat on a wearer's head.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is an illustration of one embodiment of the present invention showing hat 10 having brim 11 and crown portion 20.

FIG. 2 is a view of the bottom of hat 10 of FIG. 1, showing inner portion 20A of crown portion 20, and brim 11.

FIG. 3 is a cross-sectional view of hat 10 taken at line 3—3 of FIG. 2, showing hat 10 having brim 11 and crown portion 20.

FIG. 4 is an enlarged view of end 11A of brim 11 of FIG. 3, showing casing 33, passage 31, framing 32, and glue 4.

FIG. 5 is an enlarged view of end 11A of brim 11 of FIG. 3, showing casing 33, passage 31, framing 32, and thread 5.

FIGS. 6-9, are illustrations which show the progression of hat 10 being collapsed by twisting brim 11 so that three loops are formed in frame 32.

FIG. 10 is an isolated drawing of fastener 37 and support member 39, first half 37F and and second half 39F of the hook and fastener system.

DETAILED DESCRIPTION OF THE INVENTION

The hat of the present invention will be discussed first by reference to FIGS. 1–5. It should be understood that hat 10 of the present invention is not to be limited to the particular shape or style illustrated in the figures, but rather, hat 10 may comprise any desired shape that fashion, taste or trends dictate.

FIG. 1 is an illustration of one embodiment of the present invention, showing hat 10 having brim 11, crown portion 20, and chin straps 22. FIG. 2 is a view of the bottom of hat 10 of FIG. 1, showing inner portion 20A of crown portion 20, and brim 11. FIG. 3 is a cross-sectional view of hat 10 taken at line 3—3 of FIG. 2, showing hat 10 having brim 11 and crown portion 20.

Crown portion 20 may be of any shape dictated by desire or fashion, and in the embodiment shown, includes a multiplicity of sections 62 which are joined together as shown in FIG. 1 by seams 63. Hat 10 further includes decorative button 15. Of course, sections 62 may be joined together by any suitable method, including by gluing, hot seaming, molding, melting, and any other method utilized in the fashion industry. While crown portion 20 is illustrated as having a six sections 62, it is to be understood that more or less numbers of sections could be utilized to provide the desired shape, including a unitary section.

Hat 10 of the present invention is not to be limited to any particular shape of sections 62, but rather, sections 62 may be any suitable shape that will provide a hat 10 of desired shape. A multiplicity of metal air vents 17 are placed around

crown 20. While the present invention is not to be limited to the particular arrangement of or number of vents 17, in the embodiment shown in FIG. 1, 6 vents 17 are arranged circumferentially around crown 20.

Crown 20 includes an inner crown portion or inner 5 periphery 20A, which is generally oversized relative to the wearer's normal or standard hatsize. Being oversized, hat 10 tends to minimize headaches from hat wear, and will not unduly restrain the wearer's head. Additionally, with inner crown portion 20A being oversized, contact of hat 10 with 10 the wearer's face and head is minimized, thus reducing soilage of hat 10 from contact with the face and head.

A multiplicity of support members 39 extend from inner periphery 20a. These support members 39 serve to reduce the affect that crown portion 20 of hat 10 will have on the 15 wearer's hair.

While any suitable shape of support member 39 may be utilized, support members 39 are preferably elongated. Any suitable cross-sectional shape may be utilized for support members 39. Non-limiting examples of suitable cross-sectional shapes include, circular, oval, oblong, triangular, square, star, as well as other n-sided regular and irregular geometric shapes.

Any number of support members 39 may be utilized, provided that the proper support and balance is provided, and provided that no undue adverse affect is caused to the wearer's hair style. Generally then, at least three support members 39 are utilized so that hat 10 may be easily balanced upon the wearer's head. Utilizing too many support members 39 will cause an undue adverse affect upon the wearer's hair style. In most instances, proper support and balance can be provided with from about 3 to about 25 support members 39. Preferably, from about 3 to about 12 support members 39 are utilized, and most preferably, from about 5 to about 10 support members 39 are utilized.

Support members 39 serve to reduce or eliminate the contacting of inner crown portion 20A with the wearer's hair to prevent inner crown portion 20A from causing any undue adverse affect to the wearer's hair style. With such a suspended arrangement, air may flow between the wearer's head and hat 10 providing a cooling effect. Thus, even one with little or no hair can benefit from this hat at it would provide a cooling affect to their head.

Much of the weight of hat 10 is supported upon ends 39A of support members 39. As the hair beneath ends 39A will be affected, it should be understood, that the larger the cross-sectional area of ends 39 of support members 39, the larger the affect upon the wearer's hairstyle, and the smaller the cross-sectional area of ends 39A of support members 39, the smaller the affect upon the wearer's hairstyle. Generally then, it is desirable to utilize smaller cross-sectional areas for ends 39a. Additionally, as support members 39 must traverse through the hair, the cross-sectional areas of support members 39 should likewise be of smaller cross-sectional areas.

While any suitable shape may be utilized, ends 39a of support members 39 are preferably rounded, pointed, or formed into a line or series of lines, to minimize the area of support member 39 which contacts the wearer's hair to prevent undue adverse affect to the wearer's hair style.

Support members 39 may be affixed directly to hat 10, or as in the embodiment shown in the figures, may be affixed to the hat utilizing a fastener 37. While any suitable shape of fasteners 37 may be utilized, fasteners 37 are generally elongated strips as illustrated.

Where a fastener is utilized, any suitable type of fastener system may be utilized to affix support members 39 to

6

fasteners 37. For example matching snap fasteners may be utilized to affix support members 39 to fasteners 37. Preferably, fasteners 37 and support members 39 are affixed utilizing a hook and loop system, for example, a commercially available brand known as VELCRO. With such a hook and loop system, support members 39 are movably attached, and may be affixed anywhere along fastener s strips 37 as desired by the wearer.

Hat 10 optionally includes a brim 11, which provides protection against sun, rain and other elements. This brim 11 includes upper brim surface 12 and lower brim surface 13. At the outer circumference 11A of brim 11 is affixed an independent casing member 33, having an inner passage 31 in which frame 32 is positioned.

Referring now to FIG. 4 there is shown an enlarged view of end 11A of brim 11 of FIG. 3, showing casing 33, passage 31, framing 32, and glue 4, an to FIG. 5 there is shown an enlarged view of end 11A of brim 11 of FIG. 3, showing casing 33, passage 31, framing 32, and thread 5.

Independent casing member 33 may be affixed to brim 11 by any suitable method, including gluing or hot seaming with glue or hot seam material 4 as shown in FIG. 4, sewing with thread or cord 5 as shown in FIG. 5, and by other methods known in the fashion art.

While illustrated as extending around the entire circumference of hat 10, it is to be understood that brim 11 may also extend around only a portion of the circumference of hat 10, such as with a visor or bill, and may also comprise more than one brim portion.

Alternatively, at its outer circumference 11A, brim 11 may be folded over to form a casing 33 having inner passage 31. Of course, passage 31 could be formed by any suitable method, and may be any suitable shape.

A frame member which may be twisted to collapse the hat into a small compact size and shape, may be incorporated into hat 10 as taught and disclosed in U.S. Pat. No. 4,999, 851, issued May 19, 1991 to Hall, herein incorporated by reference.

As will be understood, frame member 32 may be made of wire or plastic, or any other suitably bendable but "resilient" material, and may be any acceptable thickness. Examples of suitable frame members 32 includes steel wire approximately 0.030" in diameter or 1/8" plastic tubing.

The function of frame member 32 is better understood by reference to FIGS. 4-7, which show the progression of hat 10 being folded by a wearer's hands 70 twisting brim 11 so that three loops are formed in frame 32.

Where hat 10 does not include a brim member 11, frame 32 may be affixed directly to the crown portion of hat 10.

While the illustrative embodiments of the invention have been described with particularity, it will be understood that various other modifications will be apparent to and can be readily made by those skilled in the art without departing from the spirit and scope of the invention. Accordingly, it is not intended that the scope of the claims appended hereto be limited to the examples and descriptions set forth herein but rather that the claims be construed as encompassing all the features of patentable novelty which reside in the present invention, including all features which would be treated as equivalents thereof by those skilled in the art to which this invention pertains.

I claim:

- 1. A hat comprising:
- (a) a crown member having an internal periphery for receiving at least a portion of a head of a wearer;

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7

- (b) a first half of an interengagable fastener affixed to the inner periphery; and
- (c) a multiplicity of elongated support members for supporting the hat on the head of a wearer, each support member having a first end comprising a second half of the interengagable fastener mated with the first half of the interengagable fastener and having a second end extending from the internal periphery.
- 2. The hat of claim 1 comprising at least three support members.
- 3. The hat of claim 1 comprising in the range of about 3 to about 25 support members.
- 4. The hat of claim 1 comprising in the range of about 5 to about 10 support members.
- 5. The hat of claim 1 wherein the support members are 15 cylindrical.
- 6. The hat of claim 1 wherein the support members second ends are rounded, pointed, or formed into a line or series of lines.
- 7. The hat of claim 1 wherein the support members have 20 a cross-sectional shape that is selected from among circular, oval, oblong, triangular, square, star, and n-sided regular and irregular geometric shapes.
- 8. The hat of claim 1 wherein the fastener comprises a first half of an interengagable hook and loop fastener system and 25 the support members first ends comprise a second half of the interengagable hook and loop fastener system.
 - 9. A hat comprising:
 - (a) a crown member having an internal periphery for receiving at least a portion of a head of a wearer;
 - (b) a first half of an interengagable fastener affixed to the inner periphery;

8

- (c) a multiplicity of elongated support members for supporting the hat on the head of a wearer, each support member having a first end comprising a second half of the interengagable fastener mated with the first half of the interengagable fastener and having a second end extending from the internal periphery; and
- (d) a brim affixed to and extending circumferentially around the crown, with the brim comprising a casing having a framing.
- 10. The hat of claim 9 comprising at least three support members.
- 11. The hat of claim 9 comprising in the range of about 3 to about 25 support members.
- 12. The hat of claim 9 comprising in the range of about 5 to about 10 support members.
- 13. The hat of claim 9 wherein the support members are cylindrical.
- 14. The hat of claim 9 wherein the support members second ends are rounded, pointed, or formed into a line or series of lines.
- 15. The hat of claim 9 wherein the support members have a cross-sectional shape that is selected from among circular, oval, oblong, triangular, square, star, and n-sided regular and irregular geometric shapes.
- 16. The hat of claim 9 wherein the fastener comprises a first half of a complementary hook and loop fastener system and the support members first ends comprise a second half of the complementary hook and loop fastener system.

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